

ABSTRACT OF THE DISCLOSURE

A shape detecting apparatus 10 for controlling the tension of a rolled plate 1, is composed of a pair of fixing members 12, a supporting frame 14 and a plurality of shape detecting units 20. The shape detecting units 20 is fixed detachably in a close proximity of the supporting frame in the lateral direction. The shape detecting unit 20 is composed of cylindrical divided rolls 22 in contact with the rolled plate, a fixing member 24 fixed on the supporting frame, an arm member 26 of which one end supports the divided roll rotatably, and of which the other end is fixed on the fixing member, and a load detector 28 for detecting a moment of rotation acting on the arm member.